



Revised April, 1991

Agdex 149/33-21

Varietal Description of Bounty Spring Canola

Origin and breeding

Bounty, tested as AU 154 and WW3909, was developed at the Weibullsholm Plant Breeding Institute, Landskrona, Sweden, from the cross WW1316 x Gulliver, made in 1979. The segregating generations were handled by pedigree selection. At the F₆ generation, a single plant selection was made from which the line AU 154 (WW3909) descended. At all stages, selection was performed for maturity, canola quality, oil and protein content and disease resistance. Breeder seed was first bulked in 1986.

Varietal characteristics

Plant characteristics

Cotyledon: medium width
Leaves: medium green; partially clasping to the stem
Stems: moderate anthocyanin content
Flowering date: medium, earlier than Delta and later than Westar
Flowers: yellow
Pods: bilateral; medium length and width; horizontal to semi-erect habit
Plant height: slightly taller than Westar and Legend, shorter than Delta
Shattering resistance: fair
Lodging resistance: similar to Westar and Delta
Disease reactions: susceptible to blackleg (*Leptosphaeria maculans*) and Rhizoctonia root rot (*Rhizoctonia solani*).

Seed characteristics

Erucic acid content: less than 0.5 per cent
Glucosinolate content: lower than Westar
Oil content: lower than Westar but higher than Delta
Protein content: lower than Westar
Color: reddish brown
Weight per 1000 seeds: 3.5 grams
Seed chlorophyll: lower than Westar and Legend

Performance

Bounty is a high yielding variety with reduced erucic acid and glucosinolates content. It has superior blackleg resistance with oil and protein content intermediate between Westar and Delta.

Maintenance of breeder seed

Weibulls AB, Landskrona, Sweden

Canadian representative

Allelix Crop Technologies

Canadian distributor

Allelix Crop Technologies, United Grain Growers Ltd.

Recommended by

The Western Canada Canola/Rapeseed Recommending Committee

Table 1. Performance of Bounty and check varieties, Western Canadian Rapeseed Co-operative Trials, 1988-1989*

Variety	Maturity	Yield (100 kg's/ha)	Oil (%)	Protein (%)	Glucosinolate (μ mol/g)	Plant height (cm)	Lodging (1-5)**
Bounty	94.6	21.9	42.0	45.0	8.0	101.1	2.1
Delta	96.2	22.0	41.7	43.8	13.2	107.9	2.0
Legend	94.2	20.8	42.2	45.9	12.1	98.7	1.9
Westar	92.6	21.4	42.8	45.5	11.6	99.2	2.1

*1988 locations were: Indian Head, Lashburn, Scott, Ituna, Melfort, Meath Park, Swan River, Ellerslie, Kelsey, Loon Lake, Beaverlodge, Fairview, Ft. Vermilion, Penhold, Rosebank, Portage la Prairie, Lethbridge and Outlook.

1989 locations were: Saskatoon, Indian Head, Scott, Melfort, Meath Park, Somme, Beaverlodge, Penhold, Delacour, Outlook and Ft. Vermilion.

**5 = severe lodging

Table 2. Disease reactions of Bounty and check varieties, Western Canadian Rapeseed Co-operative Trials

Variety	Blackleg rating				Rhizoctonia root rot†† (% seed viability)
	0-100*	0-4**	0-4***	1-5†	
Bounty	34.1	1.9	1.2	2.9	93
Delta	43.8	2.2	1.2	2.9	99
Legend	29.0	1.8	1.0	2.8	96
Westar	53.8	2.5	2.4	3.4	96

Blackleg data is obtained from:

*A. Petrie (1987 and 1988) and R. Gugel

**R. Rimmer of University of Manitoba

***D. Sippel of Allelix Crop Technologies

†P. Kharbanda

††Rhizoctonia data obtained from D.L. McKenzie, Saskatoon, 1989.

Table 3. Performance of Bounty and check varieties, Western Canada Mid-Season Zone Rapeseed Co-operative Trials, 1988-1989*

Variety	Yield (100's kg/ha)		Oil (%)		Protein (%)	
	1989	1988	1989	1988	1989	1988
Bounty	16.1	22.3	40.9	44.3	45.0	47.7
Delta	16.4	22.9	40.7	43.4	44.0	44.3
Legend	15.3	21.1	41.0	44.3	46.9	43.1
Westar	15.5	21.0	41.8	44.8	46.0	45.5

*1989 locations were: Saskatoon, Indian Head, Lashburn, Scott, Melfort, Meath Park, Somme, Ellerslie, Kelsey, Westlock and Swan River

1988 locations were: Indian Head, Lashburn, Scott, Ituna, Melfort, Meath Park, Swan River, Ellerslie and Kelsey.